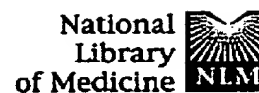


EXHIBIT "G"



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Bc

Search 

for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

About Entrez

Display

Abstract

Sort

Save

Text

Clip Add

Order

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

PubMed Services

Journal Browser

MeSH Browser

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Privacy Policy

☐ 1: Curr Mol Med 2001 Mar;1(1):45-65Related Articles, **NEW Books**

The human ATP-binding cassette transporter genes: from the bench to the bedside.

Efferth T.

Virtual Campus Rhineland-Palatinate, Mainz, Germany. efferth@vcrp.de

ATP-binding cassette (ABC) transporter genes are ubiquitously present in most organisms from bacteria to man. This gene family is the largest one known as of yet. Still growing, the number of human ABC transporters counts currently 47 members which belong to seven subfamilies. ABC transporters share a similar molecular architecture: (1) Full-structured transporters harbor two symmetric halves each consisting of one nucleotide binding domain (NBD) and one transmembrane domain (TMD). (2) Half-transporters with one NBD and one TMD homo- or heterodimerize to functional transporter complexes. ABC transporters are "traffic ATPases" which hydrolyze ATP and which transport a wide array of molecules or conduct the transport of molecules by stimulating other translocation mechanisms. Many ABC transporters are involved in human inherited or sporadic diseases such as cystic fibrosis, adrenoleukodystrophy, Stargardt's disease, drug-resistant tumors, Dubin-Johnson syndrome, Byler's disease, progressive familial intrahepatic cholestasis, X-linked sideroblastic anemia and ataxia, persistent hyperinsulinemic hypoglycemia of infancy, and others. The present review summarizes the current findings in basic research and the efforts for bridging the gap to clinical applications in therapy and diagnostics.

PMID: 11899242 [PubMed - in process]

Display

Abstract

Sort

Save

Text

Clip Add

Order

Write to the Help DeskNCBI | NLM | NIHDepartment of Health & Human ServicesFreedom of Information Act | Disclaimer